



S38 and S278 Works, Westgate, Cleckheaton

Stage 1 & 2 Road Safety Audit

September 2023

S38 AND S279 WORKS,
WESTGATE,
CLECKHEATON

STRATA

COMBINED STAGE 1 & 2 ROAD SAFETY AUDIT

Report by: Adam Bradley

Bryan G Hall
Consulting Civil & Transportation Planning Engineers
Suite E15, Joseph's Well, Hanover Walk, Leeds, LS3 1AB

Ref: 23-285-001.01

Date: September 2023

CONTENTS

1.0	INTRODUCTION	1
2.0	ITEMS RAISED IN THIS COMBINED STAGE 1 & 2 ROAD SAFETY AUDIT	3
3.0	AUDIT STATEMENT	6

APPENDICES

Appendix BGH1

Road Safety Audit Location Plan

1.0 INTRODUCTION

- 1.1 This Report comprises a combined Stage 1 & 2 Road Safety Audit (RSA) as defined in the Institution of Highways and Transportation (IHT) document 'Road Safety Audit Guidelines' and the Department for Transport (DfT) Design Manual for Roads and Bridges (DMRB) Standard GG 119 Road Safety Audit. It is concerned with the proposed Section 38 and Section 278 works associated with the residential development off Westgate, Cleckheaton.
- 1.2 The proposed development site is located to the south of A643 Westgate in the residential area of Cleckheaton and currently contains a car park and existing B2 industrial units. The site is bound to the north by A643 Westgate, to the east by Quarry Road, to the south by undeveloped farmland and to the west by Brick Street.
- 1.3 The proposed development is for the construction of some 180 dwellings and associated infrastructure, with access to be taken from a simple priority junction onto A643 Westgate. As part of the access works the existing zebra crossing will be relocated slightly and the carriageway/footways of A643 Westgate will be widened. Offsite works also include the refreshing of an existing zebra crossing facility some 460 metres to the east of the site, to the east of the A643 Westgate/Hightown Road junction. The site access and works to A643 Westgate form the Section 278 works and are considered within this Audit.
- 1.4 The Section 38 works associated with this Audit include a network of residential streets with carriageway widths of generally 5.5 metres and footways to both sides. The Audit considers the highway safety implications of the internal highway arrangement (Section 38 works) and their interface with wider connections. The Section 38 works are shown in yellow on the Section 38 Highways Layout drawings that form the basis of this Audit. The Audit site visit was carried out in July 2023.
- 1.5 The Audit Team comprised:-

Road Safety Audit Team Leader

Adam Bradley BSc (Hons), MCIHT

Principal Engineer

Bryan G Hall Consulting Civil and Transportation Planning

Road Safety Audit Team Member

David Bell MEng, CEng, MCIHT, (Certificate of Competency in Road Safety Audit gained in October 2013)

Director

Bryan G Hall Consulting Civil and Transportation Planning Engineers

1.4 The Audit took place at Bryan G Hall Offices and comprised an examination of the information provided by the designer of the scheme. The information included: -

Drawings Audited

- QD1776 03 01 ENGINEERING LAYOUT REV B
- QD1776 04 10 VERTICAL ALIGNMENT SHEET 1
- QD1776 04 11 VERTICAL ALIGNMENT SHEET 2
- QD1776 05 01 LONGSECTIONS SHEET REV B
- QD1776 05 02 LONGSECTIONS SHEET REV B
- QD1776 06 01 ROAD CONSTRUCTION DETAILS REV B
- QD1776 07 01 B HIGHWAY CONSTRUCTION LAYOUT SHEET 1 REV B
- QD1776 07 02 B HIGHWAY CONSTRUCTION LAYOUT SHEET 2 REV B
- QD1776 16 01 SECTION 38 LAYOUT
- STRATA ENGINEERING REV F TRACKING 2-12-22

1.5 The Audit Team visited the site of the proposed development together on the morning of 26th July 2023. During the site visit the weather was warm/sunny and the road surface dry. Traffic levels were observed to be moderate with some pedestrian and cyclist activity on Westgate.

1.6 The terms of reference of the Road Safety Audit are as described in GG 119. The auditors have examined and reported only on the road safety implications of the scheme as presented and has not examined or verified the compliance to any other criteria.

2.0 ITEMS RAISED IN THIS COMBINED STAGE 1 & 2 ROAD SAFETY AUDIT

2.1 All items raised within this RSA are shown on the annotated plan at Appendix **BGH1**.

Drawing No. QD1776-00-0923 Section 278 General Arrangement

2.2 **Problem A**

Location: Northern side of zebra crossing on A643 Westgate

Summary

Vegetation and obstructions in the footway to the north of the zebra crossing will increase the risk of pedestrians entering the carriageway into the path of oncoming vehicles resulting in collisions.

Vegetation along the back of footway to the north of A643 Westgate encroaches on the footway and reduces the available footway width. The reduced footway width will increase the risk of pedestrians entering the carriageway to pass pedestrians travelling in the opposite direction into the path of oncoming vehicles resulting in collisions.

The proposed location of the belisha beacon and lighting column at the back of footway will also reduce the footway width, creating a narrower footway across the northern side of the zebra crossing where people waiting to cross will further obstruct pedestrians travelling east/west on the footway. The obstructions created by the belisha beacon and lighting column combined with waiting pedestrians will also increase the risk of pedestrians entering the carriageway into the path of oncoming vehicles resulting in collisions.



Recommendation

It is recommended that overgrown vegetation along the back of footway is removed, and that the street furniture is relocated to reduce the impact of the obstruction they introduce.

Drawing No. QD1776-16-01– Section 38 Layout

2.3

Problem B

Location: Link 2 (south western pedestrian link)

Summary

The pedestrian link from the southwestern corner of the site from Road 4 to Brick Street (link 2) does not connect to a footway on Brick Street. The lack of footway will lead to pedestrians emerging directly onto the carriageway in the vicinity of parked vehicles. Vehicles parked on Brick Street along the eastern side of the carriageway will restrict intervisibility between pedestrians and drivers and will force pedestrians to walk in the middle of the carriageway. The lack of footway and presence of parked vehicles will increase the risk of collisions between vehicles and pedestrians.

Recommendation

It is recommended that the location where Link 2 meets Brick Street is reviewed and suitable footway is provided on Brick Street to facilitate safe journeys from the site on foot.

2.7

Problem C

Location: Link 2 and Link 3

Summary

The pedestrian links in the northeastern (Link 3) and southwestern (Link 2) corners of the site connect to Quarry Road and Brick Street respectively. There are no measures to limit the use of the links to pedestrians only and therefore cyclists may use the links as part of journeys to and from the site. The use of the links by both pedestrians and cycles will increase the risk of collisions between pedestrians and cycles.

Recommendation

It is recommended that the intended use of Link 2 and 3 is reviewed and the design amended to suit the intended users and to restrict access where necessary.

2.8

Problem D

Location: Site wide.

Summary

There are no tactile paving or dropped kerb arrangements provided across desire lines at priority junctions around the site other than across Road 3 and Road 4 to the north and south of footpath Link 1 (drawing ref: QD1776 07 02 B HIGHWAY CONSTRUCTION LAYOUT SHEET 2 REV B). The lack of dropped kerbs and tactile paving increases the risk of trips, and collisions between vehicles and partially sighted pedestrians.

Recommendation

It is recommended that tactile paving and dropped kerbs are provided at priority-controlled junctions throughout the site and that they are provided in accordance with Guidance on the Use of Tactile Paving Surfaces 2021).

2.9

General

Street lighting design has not been included within the audit brief and has therefore not been considered as part of this audit.

3.0 AUDIT STATEMENT

3.1 We certify this audit has been carried out in accordance with GG 119.

ROAD SAFETY AUDIT TEAM LEADER

Adam Bradley BSc (Hons), MCIHT
Principal Engineer
Bryan G Hall Consulting Civil and Transportation Planning



Signed:

Date: 27 November 2023

ROAD SAFETY AUDIT TEAM MEMBER

David Bell
Director
MEng, CEng, MCIHT,
(Certificate of Competency in Road Safety Audit gained in October 2013)
Bryan G Hall Consulting Civil and Transportation Planning Engineers



Signed:

Date: 27 November 2023

APPENDIX BGH 1



Registered in England & Wales
Co No: 4104802

VAT No: 399 4601 07

Registered Office

Suite E15 Joseph's Well
Hanover Walk
Leeds LS3 1AB

Telephone: 0113 246 1555

Email:
transportleeds@bryanghall.co.uk

Website: www.bryanghall.co.uk